



Tb3TFTrend

Multi-Timeframe Moving Average Trend Indicator for NinjaTrader 8*

Version 1.0.0.0 | Tradebrary



Overview

The **Tb3TFTrend** indicator displays moving averages from three different timeframes simultaneously on your chart. Each timeframe shows a fast and slow

moving average pair, with a colored region drawn between them to visualize the trend spread.

Key features include:

- Three independent MA pairs from different timeframes displayed simultaneously
- Colored regions between fast and slow MAs show trend spread for each timeframe
- User-selectable moving average types (DEMA, EMA, HMA, SMA, SUPERTREND, TEMA, VWMA, WMA, ZLEMA)
- Customizable fast and slow MA periods for each timeframe
- Separate bullish and bearish colors for each timeframe (6 colors total)
- Option to show/hide MA lines for each timeframe
- **Optional Timeframes:** Enable or disable TF2 and TF3 independently - disabled timeframes don't load data series
- **Color Target:** Choose to display regions, color bars, color background, or just MA lines
- **All-Aligned Coloring:** When using Bars or Background mode, colors only appear when all enabled timeframes agree on trend direction

How It Works

The indicator calculates two moving averages (fast and slow) for each of the three timeframes:

- **Fast MA:** Shorter period, responds quickly to price changes (default: 20)
- **Slow MA:** Longer period, shows the underlying trend (default: 50)

A colored region is drawn between each fast/slow MA pair, creating a visual "ribbon" that expands when trends are strong and contracts when price consolidates. Each timeframe has separate colors for bullish (fast MA above slow MA) and bearish (fast MA below slow MA) conditions.



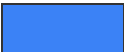
Trading Insight: When the fast MA is above the slow MA, the region displays the bullish color. When below, it displays the bearish color. The width of the region indicates trend strength - wider regions suggest stronger trends.




Installation

1. Open NinjaTrader 8
2. Go to **Tools** → **Import** → **NinjaScript Add-On...**
3. Browse to and select the `Tb3TFTrend.zip` file
4. Click **OK** to import
5. The indicator will compile automatically
6. Add to chart: Right-click chart → Indicators → Tradebrary → Tb3TFTrend

Timeframe Configuration

The indicator analyzes three timeframes:

| Timeframe | Source | Bullish Color | Bearish Color | Description |
|---|-------------------------------|--|--|---|
|  TF1 | Current chart (automatic) |  Green |  Red | Fastest timeframe |
|  TF2 | User-defined (default: 5 Min) |  RoyalBlue |  Orange | Medium timeframe (optional - can be disabled) |

| | | | | |
|---|--------------------------------------|---|---|---|
|  | User-defined (default: 15 Min) |  Cyan |  Magenta | Slowest timeframe (optional - can be disabled) |
|---|--------------------------------------|---|---|---|

Tip: For best results, configure TF2 and TF3 to be higher timeframes than your chart. For example, if you're on a 1-minute chart, set TF2 to 5 minutes and TF3 to 15 minutes.

Visual Display

Each timeframe displays:

- **Fast MA line** - Shorter period moving average
- **Slow MA line** - Longer period moving average
- **Colored region** - Shaded area between the two MAs (bullish or bearish color)

The regions for all three timeframes overlay on the chart, creating a layered view of trend alignment across timeframes. Each timeframe uses its **bullish color** when fast MA is above slow MA, and its **bearish color** when fast MA is below slow MA. Use the **Region Opacity** setting to adjust transparency (default: 50%).

Reading the Regions:

- When regions from multiple timeframes show bullish colors, it indicates strong bullish alignment
- When regions from multiple timeframes show bearish colors, it indicates strong bearish alignment
- Mixed colors across timeframes suggest conflicting trends - use caution
- Expanding regions suggest strengthening trends
- Contracting regions may indicate consolidation or potential reversal

Color Target Modes

The **Color Target** parameter controls how the indicator displays trend information:

| Mode | Behavior | Best For |
|------|----------|----------|
|------|----------|----------|

| | | |
|----------------------------|---|---|
| Region | Draws colored regions between fast and slow MAs for each timeframe. Each timeframe shows its own bullish/bearish color based on MA crossover. | Visualizing trend spread and seeing individual timeframe trends |
| Bars | Colors the price bars only when all enabled timeframes agree. Lime when all bullish, Red when all bearish, no color when mixed. | Quickly identifying full trend alignment for entries |
| Background | Colors the chart background only when all enabled timeframes agree. Uses Region Opacity setting for transparency. | Clean chart with subtle trend alignment indication |
| BarsAndRegion | Combines both: draws colored regions between MAs for each timeframe AND colors bars when all enabled timeframes agree on direction. | Full visual display with trend spread regions plus alignment-based bar coloring |
| BackgroundAndRegion | Combines both: draws colored regions between MAs for each timeframe AND colors the background when all enabled timeframes agree on direction. | Full visual display with trend spread regions plus subtle background alignment indication |
| None | No regions, bar coloring, or background. Only displays | Using MA lines only without visual |

| | | |
|--|----------------------|---------|
| | MA lines if enabled. | clutter |
|--|----------------------|---------|

Trading Tip: Use **Bars** or **Background** mode for a cleaner chart that highlights only the strongest signals - when all enabled timeframes agree on direction. Use **BarsAndRegion** or **BackgroundAndRegion** to get both the trend spread visualization AND alignment coloring simultaneously.

Moving Average Types

Each timeframe can use any of these moving average types:

| Type | Full Name | Characteristics |
|-------------------|-----------------------|---|
| DEMA | Double Exponential MA | Fast, reduced lag, good for trending markets |
| EMA | Exponential MA | Popular choice, weights recent data more heavily |
| HMA | Hull MA | Very smooth, minimal lag, popular for trend following |
| SMA | Simple MA | Classic average, equal weight to all periods |
| SUPERTREND | Supertrend | ATR-based trend indicator, adapts to volatility with multiplier × ATR bands |
| TEMA | Triple Exponential MA | Very fast, reduced lag, may overshoot |
| VWMA | Volume Weighted MA | Weights price by volume, emphasizes high-volume moves |

| | | |
|--------------|--------------|---|
| WMA | Weighted MA | Linear weighting, moderate responsiveness |
| ZLEMA | Zero Lag EMA | Reduced lag EMA, more responsive to price changes |

Tip: EMA is a good default choice. For faster signals with reduced lag, try HMA, TEMA, or ZLEMA. For volatility-adaptive trend following, try SUPERTREND. For volume-aware analysis, use VWMA.

Parameters

Timeframe 1 (Chart) Settings

| Parameter | Default | Description |
|------------------------|---------|---|
| TF1 MA Type | EMA | Moving average type for chart timeframe |
| TF1 Fast Length | 20 | Fast MA period for TF1 |
| TF1 Slow Length | 50 | Slow MA period for TF1 |




Timeframe 2 Settings






| Parameter | Default | Description |
|------------------------|---------|---|
| Enable TF2 | True | Enable or disable Timeframe 2. When disabled, no data series is loaded and TF2 is excluded from all-bullish/all-bearish calculations. |
| TF2 Type | Minute | Bar period type (Minute, Tick, Range, etc.) |
| TF2 Value | 5 | Bar period value (e.g., 5 for 5-minute bars) |
| TF2 MA Type | EMA | Moving average type for TF2 |
| TF2 Fast Length | 20 | Fast MA period for TF2 |
| TF2 Slow Length | 50 | Slow MA period for TF2 |

Timeframe 3 Settings

| Parameter | Default | Description |
|------------------------|---------|---|
| Enable TF3 | True | Enable or disable Timeframe 3. When disabled, no data series is loaded and TF3 is excluded from all-bullish/all-bearish calculations. |
| TF3 Type | Minute | Bar period type (Minute, Tick, Range, etc.) |
| TF3 Value | 15 | Bar period value (e.g., 15 for 15-minute bars) |
| TF3 MA Type | EMA | Moving average type for TF3 |
| TF3 Fast Length | 20 | Fast MA period for TF3 |
| TF3 Slow Length | 50 | Slow MA period for TF3 |

Display Settings

| Parameter | Default | Description |
|--------------------------|--|--|
| TF1 Bullish Color |  Green | TF1 region color when fast MA is above slow MA |
| TF1 Bearish Color |  Red | TF1 region color when fast MA is below slow MA |
| TF2 Bullish Color |  RoyalBlue | TF2 region color when fast MA is above slow MA |

| | | |
|---------------------------------------|--|--|
| TF2 Bearish Color |  Orange | TF2 region color when fast MA is below slow MA |
| TF3 Bullish Color |  Cyan | TF3 region color when fast MA is above slow MA |
| TF3 Bearish Color |  Magenta | TF3 region color when fast MA is below slow MA |
| Region Opacity | 50 | Transparency of the colored regions (0-100%) |
| Use Close vs Fast MA for Color | False | If checked, region color is based on Close above/below Fast MA. If unchecked, color is based on Fast MA above/below Slow MA. |
| Color Target | Region | Controls how trend alignment is displayed: Region: Draws colored regions between MAs (default) Bars: Colors bars when all enabled TFs are bullish or bearish Background: Colors background when all enabled TFs agree BarsAndRegion: Draws regions AND colors bars on alignment BackgroundAndRegion: Draws regions AND colors background on alignment None: Just draws MA lines, no coloring |
| All Bullish Color |  Lime | Bar/Background color when all enabled timeframes are bullish (used with Bars/Background modes) |
| All Bearish Color |  Red | Bar/Background color when all enabled timeframes are bearish (used with Bars/Background modes) |

| | | |
|-----------------|------|------------------------------------|
| Show MA1 | True | Show/hide TF1 moving average lines |
| Show MA2 | True | Show/hide TF2 moving average lines |
| Show MA3 | True | Show/hide TF3 moving average lines |

Trading Strategies

Strategy 1: Trend Alignment

Look for all three timeframe regions to align in the same direction (fast MA above slow MA for all three = bullish alignment). This indicates strong trend confluence across multiple timeframes.

Strategy 2: Region Expansion

Watch for expanding regions, especially when the higher timeframes (TF2, TF3) begin to expand. This often signals the start of a strong trend move.

Strategy 3: Multi-Timeframe Confirmation

Use the higher timeframes (TF2, TF3) to determine the overall trend direction, then use TF1 for entry timing. Only take trades in the direction confirmed by the larger timeframes.

Strategy 4: Suggested Timeframe Combinations

- **Scalpers:** Chart=1m, TF2=3m, TF3=5m
- **Day Traders:** Chart=5m, TF2=15m, TF3=60m
- **Swing Traders:** Chart=60m, TF2=4H, TF3=Daily

Troubleshooting

| Issue | Solution |
|--------------------------|---|
| No regions appearing | Ensure you have enough historical data loaded for all timeframes. The indicator needs at least as many bars as your slowest MA period (default: 50 bars). |
| TF2 or TF3 not updating | Verify that the timeframe values are valid. The secondary timeframes should typically be higher than your chart timeframe. |
| MAs not visible on chart | Check that the "Show MA#" settings are enabled for the timeframes you want to see. |
| Regions too transparent | Increase the Region Opacity setting (0-100%). Higher values make regions more visible. |
| Chart looks cluttered | Try hiding some MA lines using Show MA1/2/3 settings, or reduce the number of visible timeframes. You can also decrease opacity. |
| TF2 or TF3 not showing | Check that Enable TF2 / Enable TF3 is set to True. When disabled, the timeframe does not load data and does not display any lines or regions. |

Support

For technical support, license inquiries, or feature requests:

Email: support@tradebrary.com

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3. Paste in your **Whop license key** and your **Machine ID**, then click **Get My License Keys**.
4. The page returns **one key per indicator**. Copy this indicator's key.
5. In the indicator settings, paste it into the **LicenseKey** field and click **OK**. The indicator now functions normally.

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